Refine Search

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Terms	Documents
L1 and interrupt	13

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Derwent World Patents Index
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Search History

DATE: Thursday, March 02, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
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L3	L1 and interrupt	13	L3
L2	L1 same interrupt	1	L2
L1	"data structure" near5 event near5 identifier	91	L1

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Display Format: Citation Citation & Abstract

IEEE JNL	IEEE Journal or Magazine
IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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1. **GTO driving and protection technique with status monitoring**
   Salzmann, T.; Peppel, M.;
   Industry Applications, IEEE Transactions on
   Volume 24, Issue 1, Part 1, Jan.-Feb. 1988 Page(s):115 - 120
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GTO driving and protection technique with status monitoring

Salzmann, T. Peppel, M.
Siemens AG, Erlangen, West Germany ;

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Abstract
Self-commutated converters can be simplified considerably and improved by the use of GTO thyristors. An advanced gate driving and protection concept characterized by **identifier** circuits in the gate driving system is described. There are a number of advantages in knowing the momentary switching states of the GTOs in a converter circuit. Gate driving can be optimized for the highest possible level of operating safety and dangerous switching states avoided. In the **event** of a fault, additional protection functions can be activated for effective limitation of secondary damage, and the **identifier** circuits also detect defective GTOs, which provides extra information for fault diagnosis. For this purpose the gate drive unit contains, in addition to the basic functions for gating the GTOs, function blocks for the identification of switching states and for the adaptive interlocking of the firing pulses in an inverter, as well as a protective firing circuit to meet the contingency that during turn-off the current has already reached a value high enough to jeopardize the GTO. The protection concept for the GTOs decisively affects economic inverter dimensioning. The aim is to **interrupt** operation only under extreme fault conditions (defective components) and to minimize secondary damage. Passive protection is supplemented by active measures derived from the status signals

Index Terms
Inspec

Controlled Indexing
invertors power convertors protection thyristor applications

Non-controlled Indexing
GTO thyristors converter circuit dangerous switching states fault conditions fault diagnosis gate driving system identifier circuits inverter operating safety protective firing circuit secondary damage self-commutated convertors

Author Keywords
Not Available

References

No references available on IEEE Xplore.

Citing Documents

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